



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

**FEE**

DP BAR CODE NO.: 420366  
PC Code: 107091  
FOOD Use: Yes

EPA File Symbol NO.: 59639-ENE  
ACTION CODE: R320

DECISION NO.: 491097

DATE OUT: February 24, 2015

SUBJECT: End Use Product Chemistry Review  
Product Name: Zeal SC Miticide

FROM: Hari Mukhoty, MSc, PhD.  
Product Chemistry Team  
CITAB / Registration Division (7505P)

*Handwritten signatures and initials: "mm" and "SRBw 02/25/15"*

TO: Jacquelyn Marchese, RMR / Reuben Baris, RM 07  
Herbicide & Fungicide Branch 3 / Registration Division (7505P)

Company Name: Valent USA Corporation.  
Formulation Type: Not Provided

**INTRODUCTION:**

The registrant has submitted one basic CSF (Dated: 11/25/2013), an amended CSF (Dated: 11/20/2013) as alternate formulation (Alt. # 1) to the aforesaid basic and proposed a product specific label for the registration of the aforesaid products under EPA File Symbol No: 59639-ENE. The product chemistry data have been submitted under MRIDs: 492456-01 & -02.

CITAB has been requested to review the product chemistry data required for registration of the proposed basic formulation.

**SUMMARY OF FINDINGS:**

1. Name of Active Ingredient(s): Etoxazole (31.7%).
2. Has the registrant claimed substantial similarity to registered product?  
[ ] Yes [ ] No [X] NA If yes: EPA Reg. No.
3. The source material of the active ingredient is registered with the Agency [Yes].
4. All inert ingredients have been screened by Inert Team on 05/15/2014 and have been approved for food use.

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5. Confidential Statement of Formula(s):

☒ Basic -  
☒ Alternate -

Dated: 11/25/2013  
Dated: 11/20/2013

Re-submitted: NA  
Re-submitted: NA

Alternate CSF(s) complies with 40CFR §152.43: ☒ Yes ☐ No NA ☐

6. Product label

a. Ingredient statement: Nominal concentrations of AI listed on CSF(s) concur with product label (PR Notice 91-2).

☒ Yes

Is the sub statement in compliance with PR Notice 97-6?

☒ Yes ☐ No - Uses the term "Other Ingredients"  
, if not, explain below:

Metallic equivalent: ☐ Yes ☒ NA  
Soluble arsenic: ☐ Yes ☒ NA  
Isomeric ratios: ☐ Yes ☒ NA  
Acid equivalent: ☐ Yes ☒ NA

b. Health related sub statements:

Petroleum distillate at > 10%: ☐ Yes ☐ No ☒ NA  
Methanol at > 4%: ☐ Yes ☐ No ☒ NA  
Sodium Nitrate / Sodium Nitrite ☐ Yes ☐ No ☒ NA

c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown?

☐ Yes ☒ No

Total Release Fogger PR Notice 98-6 (40 CFR 156.78 d): ☐ Yes ☐ No ☒ NA

d. Label requires an additional Storage and Disposal statement: ☐ Yes ☒ No The proposed label contains detail disposal instructions.

Final decision of overall label acceptance will be made by the PM.

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7. Group A: Product Chemistry Data

CITAB's determination of the acceptability of the data for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	492456-01
830.1600	Description of materials used to produce the product		X		A	"
830.1650	Description of formulation process		X		A	"
830.1670	Discussion on the formation of impurities		X		A	"
830.1700	Preliminary analysis #		NR		NR	
830.1750	Certified limits (158.350)	Standard certified limits	X		A	Standard CL. Described in proposed CSFs Dated: 11/25 & 20/2013
		Proposed Limits				
		Justification for wider limits			A	
830.1800	Enforcement analytical method #		X		A	492456-01

A = Acceptance, NR = Not Required, G = Data Gap, N = Not Acceptable, U = Upgradable  
W = Waiver Request, I = In Progress, NA = Not Applicable

# Analytical Method: Analysis was performed by GC using FID at 300° C. Validation data were provided for determination of nominal concentration of active ingredients of the end-use product for precision, linearity and accuracy.



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8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical State	Liquid -Emulsion	Acceptable	492456-02
830.6314	Oxidation/reduction	Does not contain any oxidizing or reducing agents.	"	"
830.6315	Flammability	Does not contain any combustible liquid	"	"
830.6316	Explosibility	Does not contain any explosive ingredient	"	"
830.6317	Storage stability	May submit data from studies conducted at 54 ° C for two weeks.	In Progress	"
830.6310	Miscibility	Not an emulsifiable liquid diluted with petroleum solvent	Acceptable	"
830.6320	Corrosion characteristics	May submit data from studies conducted at 54 ° C for two weeks.	In progress	"
830.7000	pH	7.84	Acceptable	"
830.7100	Viscosity	130.1 Centistokes @ 20° C 107.4 cP @40° C	"	"
830.7300	Density	1.0952 g/ cm <sup>3</sup>	"	"

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